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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/559,820	03/22/2006	Torsten Ronn	20459-00397-US1	7410	
	1678 7590 08/18/2008 ONNOLLY BOVE LODGE & HUTZ LLP			EXAMINER	
1875 EYE STREET, N.W. SUITE 1100 WASHINGTON, DC 20036			WEBER, JONATHAN C		
			ART UNIT	PAPER NUMBER	
			4174		
			MAIL DATE	DELIVERY MODE	
			08/18/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary					
		10/559,820	RONN ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Jonathan C. Weber	4174		
Period fo	The MAILING DATE of this communication apports or Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
2a)□	 1) ⊠ Responsive to communication(s) filed on <u>08 December 2005</u>. 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 				
Dispositi	ion of Claims				
5)□ 6)⊠ 7)⊠ 8)□ Applicat i	Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1 and 9-11</u> is/are rejected. Claim(s) <u>2-8 and 12-20</u> is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examiner The drawing(s) filed on <u>08 December 2005</u> is/are	r election requirement.	ed to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date <u>08 December 2005 & 18 August 2006</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		



Application No.

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 8 December 2005 & 18 August 2006 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 14'. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 3. The disclosure is objected to because of the following informalities: Page 4, Line 27, "initiate able" is unclear and should be revised. Appropriate correction is suggested.
- 4. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims **1 and 9-10** are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,509,357 issued to Lawther (Lawther).

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Regarding claim 1, Lawther discloses a device to control material or fragment discharge from a primary or secondary liner in connection with triggering (In view of Figures 1-3D, See Abstract), by initiation of a main charge (22 Figure 1) of an ammunition unit (In view of Figure 1) wherein the liner is devised as being exposable for effect from an explosive charge or charges that are devised as being able to be initiated upon or shortly prior to the triggering of the main charge (See abstract, Col. 5, Lines 53-56) and wherein the explosive charge or charges obtain, upon initiation, a predeformation of the liner prior to the liner being affected by the triggering of the main charge for material or fragment discharge (In view of Figures 2A-2C, Figure 2B shows the liner 38 deformed after initiation of the detonators 34).

Regarding claim 9, Lawther discloses wherein the liner is deformed upon initiation of the explosive charge or charges in a random manner over given cross sections (Inherently deformation of an object due to a blast or detonation would be random over given cross sections based on the wave propagation).

Regarding claim 10, Lawther discloses wherein concave and convex surfaces of the liner obtain wave forms in given cross sections (Inherently the concave and convex surfaces of the liner would obtain wave forms in given cross sections, evidenced by Figure 2B).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claim **11** is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,509,357 issued to Lawther (Lawther).

Regarding claim 11, Lawther discloses wherein the ammunition unit is a missile or a projectile ("26 - munition skin," makes reference to ammunition, which is a projectile with its fuse, propelling charges, or primers fired from guns, or alternatively, "20 - dual operating mode warhead", the definition of warhead according to Merriam Webster's Online Dictionary is the section of a missile containing the explosive, chemical, or incendiary charge, therefore, the reference implicitly discloses that the ammunition unit is a missile or a projectile).

Allowable Subject Matter

8. Claims 2-8 & 12-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892 – Notice of References Cited form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan C. Weber whose telephone number is (571)270-5377. The examiner can normally be reached on Monday-Friday 8:30AM-5:00PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly D. Nguyen can be reached on (571)272-2402. The fax phone number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. C. W./ Examiner, Art Unit 4174

/Jacob Y Choi/ Primary Examiner, Art Unit 2885